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Co4B41/SiO₂

106: 200705c Corrosion-resistant ceramics. Yamamoto, Hiroichi; Oguro, Takashi; Tsunoda, Hideo; Motomura, Hikari (Mitsubishi Heavy Industries, Ltd.) Jpn. Kokai Tokkyo Koho JP 62 52,192 [87 52,192] (Cl. C04B41/87), 06 Mar 1987, Appl. 85/189,784, 30 Aug 1985; 4 pp. Aluminosilicate- or zircon-based oxide films are formed on the surface of Si-contg. nonoxide ceramics TO improve their corrosion resistance. Thus, a Si₃N₄ ceramic was covered with Al₂O₃ powder (diam. 0.6 μ), and heated at 1200° for 5 h to form a surface layer consisting of 3Al₂O₃.2SiO₂. When its corrosion resistance was tested with synthetic ash at 800°, the corrosion loss was 0.75, vs. 2.7 mg/mm² for an untreated sample.